Summary of the FY05 200 GeV CuCu Data Set

Total DAQ hrs = 336.87 hrs

Total cuProductionMinBias configuration Events: 51.6 Mevts

Total cuProductionHighTower configuration Events: 23 Mevts

Min-bias Events (*Defined as only zdc-cu-narrow triggers*):

- 64.47 Mevts (with Mag. Field)
  - 43.47 Mevts with Reversed Full Field (RFF)
  - 21.0 Mevts with Forward Full Field (FFF)
- 487.2 kevts (with no Mag. Field)

HT18 Events:

- 4.53 Mevts (*equivalent to ~ 1.05 nb^{-1} recorded*)
  - 1.94 Mevts with Reversed Full Field
  - 2.59 Mevts with Forward Full Field

Cu-upc-emc Events:

- 161.535 kevts (all with Forward Full Field)

Cu-zerobias Events:

- 1079.273 kevts (with Mag. Field)
  - 504.336 kevts with Reversed Full Field
  - 574.937 kevts with Forward Full Field

FPD Events:

- cu-fpd: 268.294 kevts (all fpd trigger taken with FFF)
- cu-fpd-ht: 165.952 kevts

Upsilon Test Events: (all Upsilon Test evts taken with FFF)

- 4059 evts (with three different sets of selection parameters)

Final Event Totals for STAR Fy05 62.4 GeV CuCu Data Set

Total number of evts taken with Cu62productionMinBias Configuration = 37.781 Mevts

Total evts taken with cu62-bbc-narrow trigger = 27.262 Mevts

Total evts taken with cu62-zdc-narrow trigger = 26.805 Mevts

Total evts taken with cu62-zdc-tacs trigger = 1.678 Mevts

Total evts taken with cu62-zerobias trigger = 494.4 kevts

Total evts taken with cu62-zdc trigger = 113.8 kevts

Total evts taken with cu62-bbc-by trigger = 88.2 kevts

N.B. The fraction of BBC-narrow and zdc-narrow evts which overlap is ~ 2/3's.

Total number of "min-bias" evts = (37.781 - 0.494)Mevts = 37.287 Mevts

Total for 62 GeV CuCu run (3/10 through 3/22 (12.5 days)) = 133.01 hrs

<DAQ hrs/day> ~ 10.64 hrs/day

N.B. "DAQ hrs" only count time when production Cu62 Production Configuration is running.

Average evt rate ~ 79 Hz

Final Event Totals for 22 GeV CuCu Run (March 24, 2005)

Total number of evts taken with cu62ProductionMinBias Configuration = 4.106 Mevts

Total evts taken with cu22-bbc-narrow trigger = 3.427 Mevts

Total evts taken with cu22-zdc-tacs trigger = 995.2 kevts

Total evts taken with cu22-zdc trigger = 793.6 kevts

Total evts taken with cu22-zerobias trigger = 260.9 kevts

Total "min-bias" evts = (4.106 - 0.261) = 3.845 Mevts

Total DAQ Hours for 22 GeV CuCu run = 17.57 hrs

Average evts/hr ~ 65 Hz

Trigger data for run 6083020 , taken March 24th ~ 5 am 99913 evts in run.

99913 - 5132 = 94,781 evts of Physics

63270/94,781 = 67% only BBC trig.

20,049/94,781 = 21% satisfy BBC & one or both ZDC trigs

11,461/94,781 = 12% only satisfy a ZDC trig.

name	bit(daqTrgId)	offlineTrgId	prescale	numberOfEvents
cu22-zdc	1	86031	1.0	31510
cu22-zdc-tacs	10	86032	1.0	20975
cu22-bbc-narrow	10000	86011	1.0	83320
cu22-zerobias	100000	86300	1.0	5132

Trigger Mix (zero suppressed)

binary(summaryBits)	numberOfEvents
1	3996
11	7465
10000	63270
10001	6539
10011	13510
100000	5131
110000	1